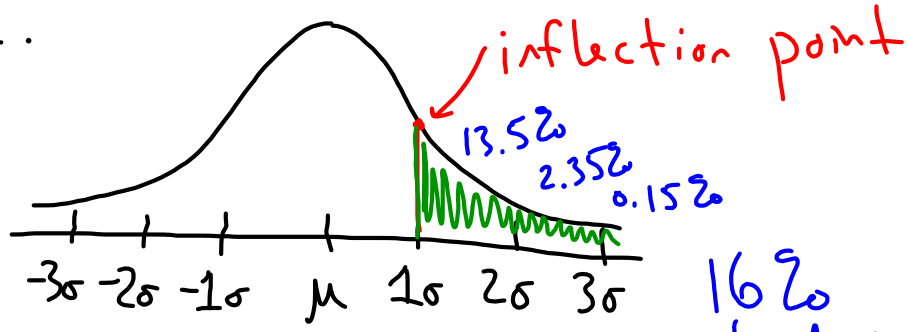
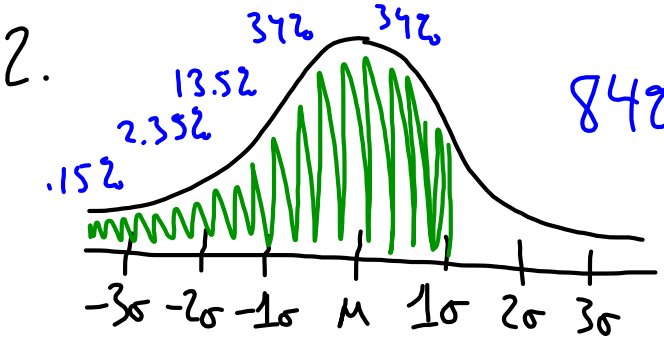
Normal Model Practice:

1.



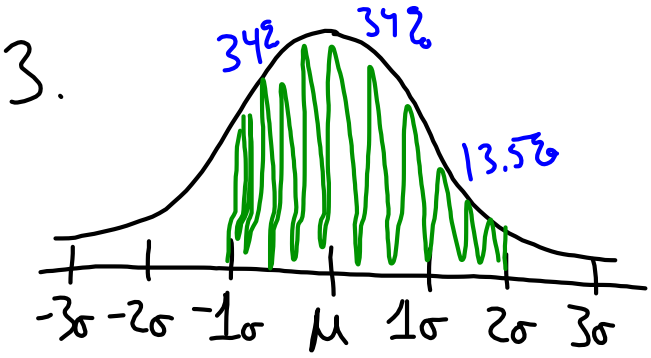
16% shaded

2.



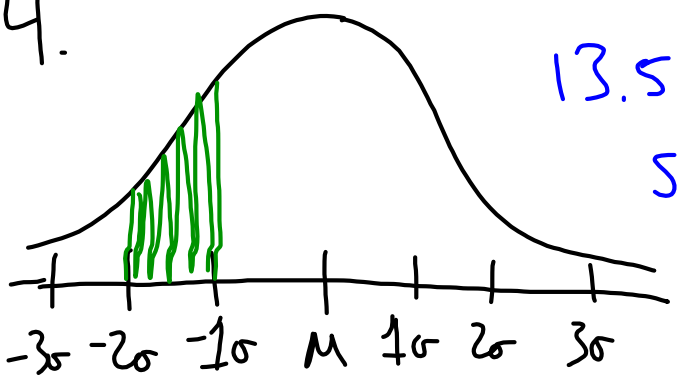
84% shaded

3.



81.5% shaded

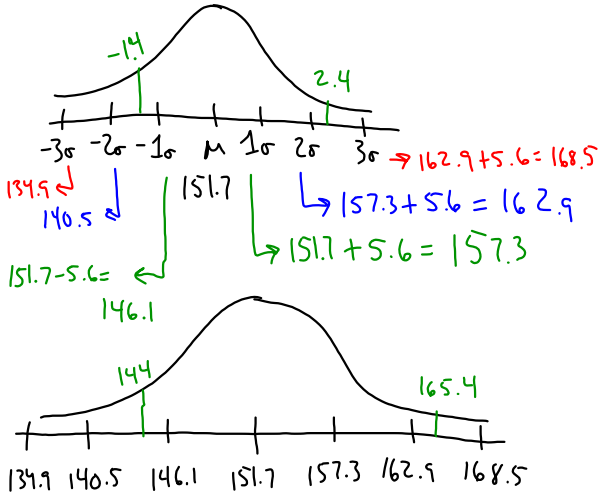
4.



13.5% shaded

6b. $z_1 = \frac{144 - 151.7}{5.6} = -1.4$

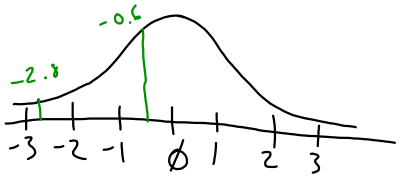
$z_2 = \frac{165.4 - 151.7}{5.6} = 2.4$



6c. $z = \frac{y - \mu}{\sigma}$

$= \frac{5 - 65}{21.2} = -2.8$

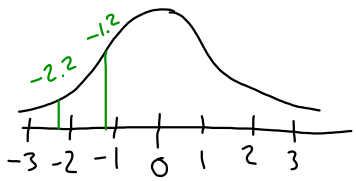
$z = \frac{52 - 65}{21.2} = -0.6$



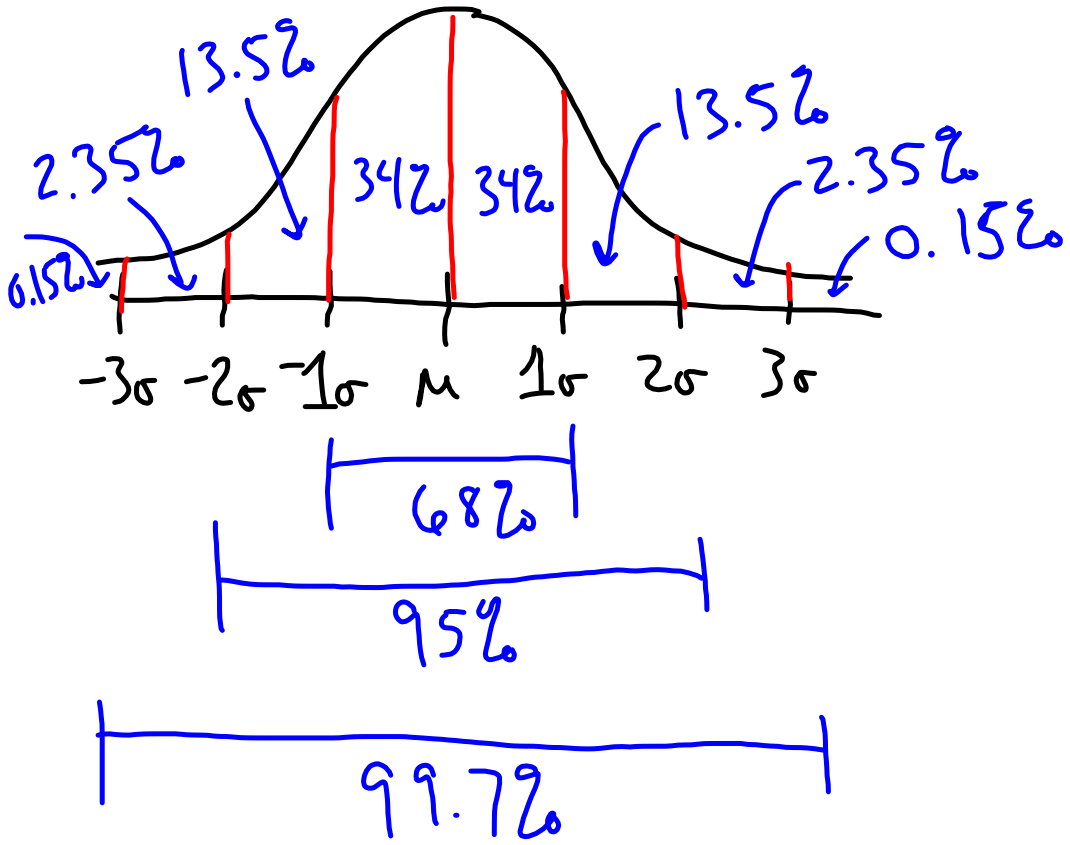
6d. $N(1142, 110)$
$\mu \quad \sigma$

$z = \frac{900 - 1142}{110} = -2.2$

$z = \frac{1000 - 1142}{110} = -1.2$



- Normal Model Percentages:



- Calculating values for $\pm 1\sigma, \pm 2\sigma, \pm 3\sigma$...
  - If answer is a z-score, do NOT calculate values.
  - If answer is a value, calculate values and put on axis of normal model